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NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:

NAKANO, Minoru c/o Sumitomo Electric Industries, Ltd. 1-3, Shimaya 1-chome Konohana-ku, Osaka-shi Osaka 554-0024 JAPON

Date of mailing (day/month/year) 03 August 2006 (03.08.2006)	
Applicant's or agent's file reference 104315-WO-00	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/017677	International filing date (day/month/year) 22 November 2004 (22.11.2004)
Applicant SUMITOMO E	LECTRIC INDUSTRIES, LTD. et al

1. Tr	ansmittal	of the	translation	to	the	applicant.
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V	The International Bureau transmits herewith a copy of the English translation of the international preliminary report or
ڪ	patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 104315-WO-00	FOR FURTHER ACTION	See item 4 below				
International application No. PCT/JP2004/017677	International filing date (day/month/year) 22 November 2004 (22.11.2004)	Priority date (day/month/year) 27 November 2003 (27.11.2003)				
International Patent Classification (8th See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237					
Applicant SUMITOMO ELECTRIC INDUSTRIES, LTD.						

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).						
2.	This REPORT consists of a total	of 6 sheets, including this cover sheet.					
		ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.					
3.	This report contains indications	relating to the following items:					
	Box No. I	Basis of the report					
	Box No. II	Priority					
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV	Lack of unity of invention					
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
•	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the international application					
	Box No. VIII	Certain observations on the international application					
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority					

	Date of issuance of this report 24 July 2006 (24.07.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Masashi Honda
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Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis:1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION 104315-WO-00 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2004/017677 22.11.2004 27.11.2003 International Patent Classification (IPC) or both national classification and IPC Applicant SUMITOMO ELECTRIC INDUSTRIES, LTD. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Priority Box No. II Box No: III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/JP

Telephone No.

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International application No.

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Box	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language
	_	, which is the language of a translation furnished for the purposes of international search (under
		Rule 12.3 and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
	a.,	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	ċ.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.	Ш	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addit	ional comments:

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Box	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement				
	' Novelty (N)	•	Claims	1-14	YES
		*	Claims		NO
	Inventive step (IS	(Claims		YES
	•	. (Claims	1-14	NO
	Industrial applical	bility (IA)	Claims	1-14	YES
		(Claims		NO
				•	

2. Citations and explanations:

Document 1: JP, 7-235376, A (Yazaki Corp.), 5 September, 1995 (05.09.95), [0017]-[0021], Fig. 1

Document 2: US, 5670839, A (Sharp Corp.), 23 September, 1997 (23.09.97), column 1, lines 8-12, column 3, line 41 to column 4, line 56, Fig. 1, column 5, lines 59-63, Fig. 5, & JP, 7-335382, A, 22 December, 1995 (22.12.95), [0001], [0015]-[0019], Fig. 1, [0027], Fig. 5

Document 3: JP, 10-262789, A (Toto Ltd.), 6 October, 1998 (06.10.98), [0009], Fig. 1, [0027], [0028], Fig. 9, Fig. 12

Document 4: JP, 2001-259434, A (Konica Corp.), 25 September, 2001 (25.09.01), [Claims]

Document 5: JP, 2002-85533, A (Mitsubishi Paper Mills Ltd.), 26 March, 2002 (26.03.02), [0018]-[0020], [0024]

Document 6: US, 2002/0006865, A1 (Toyota Central Research and Development Laboratories, Inc.), 17 January, 2002 (17.01.02), [0023]-[0026], & JP, 2002-95976, A, 2 April, 2002 (02.04.02), [0015]-[0018]

Document 7: JP, 2002-265937, A (Osram Sylvania Inc.), 18 September, 2002 (18.09.02), [0003], & US, 2003/0057399, A1, 27 May, 2003 (27.05.03), [0004]

Document 8: JP, 2002-231151, A (Hitachi, Ltd.), 16 August, 2002 (16.08.02), [0028], [0054], [0061], & US, 2003/0164670, A1, 4 September, 2003 (04.09.03), [0044], [0079], [0096]

Document 9: JP, 2002-542373, A (Honeywell Specialty Chemicals Seelze GmbH), 10 December, 2002 (10.12.02), [0012], [0043], & WO, 00-63317, A2

Document 10: JP, 2003-249373, A (Fuji Photo Film Co., Ltd.), 5 September, 2003 (05.09.03), [Claims], [0013], [0015]-[0017]

Document 11: JP, 10-141044, A (Hoya Corp.), 26 May, 1998 (26.05.98), [0042]-[0049], [0088], Figs. 1-8, & US, 6468428, B1, 22 October, 2002 (22.10.02)

Claims 1-14

Document 1 describes (1) a constitution in which (a) an inner electrode in which an EL fiber with a function to emit visible light is positioned at the center in the radial direction is provided and (b) an inner insulation layer, a light emitting layer, an outer electrode and a protective layer formed

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Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

as the outermost surface are formed around the inner electrode, (2) a constitution in which an AC electric field is applied across the electrodes, for emitting light, (3) a constitution in which an outer insulation layer is formed between the light emitting layer and the outer electrode, and (4) a constitution in which the light emitting layer has the particles of a fluorescent substance dispersed in a dielectric resin. (See [0017]-[0021] and Fig. 1.)

Document 2 describes (1) a constitution in which an EL light emitting layer capable of emitting ultraviolet light of 400 nm or less when an AC electric field is applied is provided and (2) a constitution in which the said EL light emitting layer has a mixture consisting of ZnS and MgS as a base material. (See column 1, lines 8-12, column 3, line 41 to column 4, line 56, Fig. 1, column 5, lines 59-63, and Fig. 5.)

Document 3 discloses a constitution in which EL and a photocatalyst are incorporated in one film panel for integration. The photocatalyst film described in Figs. 9 and 12 of document 3 corresponds to "a particle layer or thin film of a material with a photocatalyst function, formed as the outermost surface" of claim 3 and "a protective layer per se being a material with a photocatalyst function" described in claim 5. (See [0009], Fig. 1, [0027], [0028], Fig. 9 and Fig. 12.)

Document 4 describes a device for deodorization, antimicrobial treatment and anti-mildew treatment of an inorganic semiconductor having an organic EL element or LED together. (See "Claims".)

Document 5 describes a photocatalyst having TiO_2 doped with any one of Cu, Fe and Zn. (See [0018]-[0020] and [0024].)

Document 6 describes a photocatalyst having TiO_2 doped with either element of N and S and further doped with any one element of Mn, Fe, Co, Cu and Zn as a co-catalyst. (See [0023]-[0026].)

Document 7 describes a constitution in which an EL light emitting layer has phosphor dispersed in a ceramic dielectric. (See [0003].)

Document 8 describes (1) a constitution in which the fluorescent substance used to form a light emitting layer has ZnS and MgS as base materials, Ag as a first added element and Al as a second added element, and (2) a constitution in which the said fluorescent substance has ZnS and MgS as base materials, Cu as a first added element and Al as a second added element. (See [0028], [0054] and [0061].)

Document 9 describes a constitution in which the fluorescent substance used to form a light emitting layer has ZnS as a base material, Ag as a first added element and Cl as a second added element. (See [0012] and [0043].)

Document 10 describes a constitution in which fine semiconductor particles used to form a light emitting layer are fine particles of 10 nm or less. (See [Claims], [0013] and [0015]-[0017].)

Document 11 describes (1) a photocatalyst reaction vessel comprising photocatalyst fibers, each of which is formed by covering a light guide cylinder with a photocatalyst and (2) a photocatalyst reaction vessel having a structure in which photocatalyst sheets and light guide sheets are provided as a combination of alternate layers. (See [0042]-[0049], [0088], and Figs. 1-8.)

Therefore, the subject matters of claims 1-14 are juxtaposition of the well-known techniques described in documents 1-11 and could have been easily conceived of by a person skilled in the art. So, the subject matters of claims 1-14 do not appear to involve an inventive step in view of

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documents 1-11 cited in the ISR.	Box No. V	citations and explanations supporting suc)(i) with regard to novelty, inventive step or i ch statement	ndustrial applicability;
	docume	ents 1-11 cited in the ISR.		
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